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Light Source	Emitte Wave	Wavelength Region
3M Deluxe Transparency Maker Light Source	400 - 1200	E,F,G,H,I,J,K
558nm LED arrays	500 - 600	F,G
569nm LED arrays	550 - 600	G
590nm LED arrays	550 - 650	G,H
602nm LED arrays	570 - 700	H
615nm LED arrays	600 - 650	H
637nm LED arrays	600 - 700	H,I
644nm LED arrays	600 - 700	H,I
Bluepoint	300 - 600,340 - 1150	C,D,E,F,G
Dental 3M-ESPE Elpar Twilight	400-500	D,E
Dental 3M-ESPE Freeflight LED	430-515	E
Dental 3M LED Prototype	450-520	D,E,F
Dental Akeda LUX-O-MAX LED	420 - 560	D,E,F
Dental Apollo 35E Arc	440 - 520	E
Dental Apollo E LED	420 - 550	E,F
Dental Blue Light	400 - 500	D,E
Dental LaserMed Accucure 3000 Laser	460 - 510	E
Dental Nova LED.xls	450 - 550	E,F
Dental Yellow Light	370 - 800,950 - 1100	E,F,G,H,I,J,K
Flood Lamp	350 - 1200	D,E,F,G,H,I,J,K
Fusion D Bulb	300 - 450,500 - 600	B,C,D,F,G
Fusion H Bulb	350 - 450,550 - 600	A,B,C,D,G
Fusion V Bulb	400 - 450,550 - 600	D,G
General Electric Blacklight (black)	350 - 400	C
General Electric Blacklight (white)	350,400,435,545	C
General Electric Cool Light	400 - 700, > 950	F,G,H
General Electric Daylight	390 - 700	D,E,F,G,H
General Electric Germicidal	253	A
Gro & Sho Plant Light	400 - 700	D,E,F,G,H,I
Kodak Carousel 5200 Projector	450 - 700,950 - 1100	E,F,G,H,I,J,K
Kodak Carousel 5600 Projector	450 - 750,950 - 1100	E,F,G,H,I,J,K
Lesco Light (with new filter)	300 - 450	B,C,D,E,F,G,H
Lesco Light (with old filter)	285 - 500,570 - 600	B,C,D,E,G
NIS Black Light Blue	300 - 400	B,C
POSC 2920 300W Hg Light	300 - 450,550 - 600	B,C,D,G
POSC 930 300W Hg Light	300 - 600	B,C,D,E,F,G
Philips 200W L18 tube	400 - 500,950 - 1100	D,E,F,G,H,K

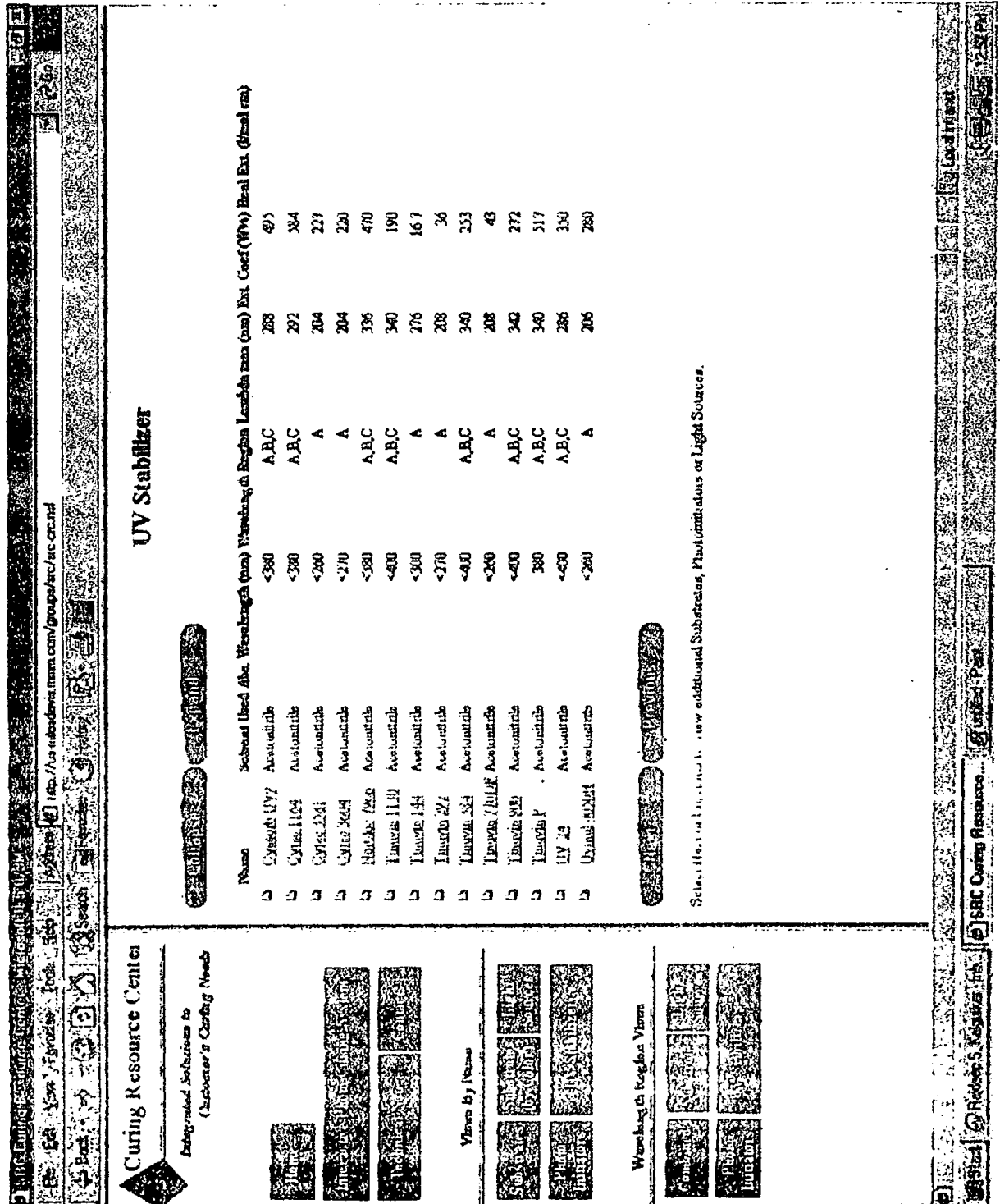
Fig. 1

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**Fig. 2A**

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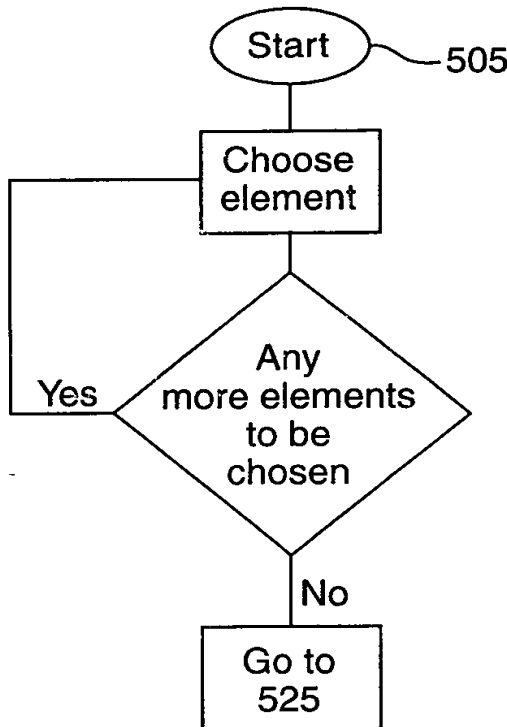
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Substrate Tested	Color of Substrate	Thickness	Transmission Wavelength (nm)	Wavelength Region
3M CMS00 Multilayer Film			300 - 500, 620 - 1020	B,C,D,E,H,I,J,K
3M CMS90 Multilayer Film			310 - 575, 700 - 1140	B,C,D,E,F,G,I,J,K
3M IR Film			310 - 910	B,C,D,E,F,G,H,I,J,K
3M Microflex 8025-1115 80-8104-8609-8	orange, Cu traces	2-2.8 mil	> 485	F,G,H,I,J,K
ABS (Sample 1)	cream, opaque	0.13	> 400	E,F,G,H,I,J,K
ABS (sample 2)	cream, opaque	0.122	> 400	F,G,H,I,J,K
Acrylic	colorless, clear	0.111	> 370	D,E,F,G,H,I,J,K
Al CD disk (40nm)	reflected mirror	40 nm	> 300	B,C,D,E,F,G,H,I,J,K
Al CD disk (45nm)	reflected mirror	45 nm	> 300	B,C,D,E,F,G,H,I,J,K
Al CD disk (50nm)	reflected mirror	50 nm	> 300	B,C,D,E,F,G,H,I,J,K
Al on BET	reflected mirror	3 mil	> 320	B,C,D,E,F,G,H,I,J,K
Alumina	opaque white	0.034	> 330	C,D,E,F,G,H,I,J,K
Astar Adhesive	colorless		> 380	D,E,F,G,H,I,J,K
BT Epoxy	opaque brown	0.083	> 520	G,H,I,J,K
Canvas	natural	32 mil	> 400	D,E,F,G,H,I,J,K
DBEF Film			> 380	C,D,E,F,G,H,I,J,K
Diamond Grade Sheeting	reflected mirror	22 mil	> 400	D,E,F,G,H,I,J,K
FR4 with green solder mask	green	0.062	> 400	E,F,I,J,K
GFRP precision punch	light yellowish-green, translucent	0.135	> 380	D,E,F,G,H,I,J,K
GFRP (FR4)	light yellowish-green, translucent	0.067	> 360	D,E,F,G,H,I,J,K
Glass slide	clear, colorless	0.222	> 310	C,D,E,F,G,H,I,J,K
Helex ethylene-chlorotrifluoroethylene ECTFE film	hazy colorless (off-white)	19 mil	230 - 275, > 280	A,B,C,D,E,F,G,H,I,J,K
HDPE	white	0.127	> 280	B,C,D,E,F,G,H,I,J,K
Kapton	orange, transparent	0.8 mil	> 435	E,F,G,H,I,J,K
Kynar polyvinylidene fluoride PVDF film	hazy colorless	15 mil	> 200	A,B,C,D,E,F,G,H,I,J,K
Mirror Multi-layer film	reflected mirror	2 mil	> 200	A,B,C,D,K
Multi-layer film	multi color	2 mil	> 200	B,C,D,E,H,I,J,K
One layer Security System card	opaque white	21 mil	> 400	D,E,F,G,H,I,J,K
PC	opaque white	15 mil	415 - 530, > 600	E,H,I,J,K
PC Hyzod FD-8200	colorless, clear	0.116	> 280	C,D,E,F,G,H,I,J,K
PC Lexan 9034	colorless, clear	0.119	> 390	D,E,F,G,H,I,J,K
PCB w/ green solder mask (spl 1)	green, no traces, board only	0.033	400 - 600, > 680	E,F,I,J,K
PCB w/ green solder mask (spl 2)	green	0.068	400 - 510, > 660	E,F,I,J,K
PCB w/ green solder mask (spl 3)	green	0.068	400 - 500, > 680	E,F,I,J,K
PCB w/ green solder mask (spl 4)	green, ground plane stripes 1/4" across	0.068	400 - 500, > 660	E,F,G,I,K
PCB w/ green solder mask (spl 5)	green (yellowish tone)	0.063	> 450	E,F,G,I,K
PCB w/ green solder mask (spl 6)	green (bluish tone)	0.068	400 - 500, > 670	E,F,I,J,K
PETG	opaque white	22 mil	> 400	D,E,F,G,H,I,J,K
Polyimide	opaque dark brown	0.074	> 320	G,H,I,J,K
Polypropylene	translucent white	0.128	> 280	C,D,E,F,G,H,I,J,K
Teflon	opaque white	0.181	> 200	A,B,C,D,E,F,G,H,I,J,K
TPX polymethylpentene PMP film	hazy colorless	11 mil	230 - 275, > 280	A,B,C,D,E,F,G,H,I,J,K
Two layer Security System Card	opaque white	13 mil	> 420	D,E,F,G,H,I,J,K
Udal polysulfone Thermalux film	hazy colorless (off-white)	10 mil	> 310	C,D,E,F,G,H,I,J,K
UHMWPE	sl translucent white	0.14	> 280	C,D,E,F,G,H,I,J,K
Ultem 1000 polyetherimide sample 1	amber transparent	0.13	> 415	E,F,G,H,I,J,K
Ultem 1000 polyetherimide sample 2	amber, transparent	0.122	> 430	E,F,G,H,I,J,K
Ultem Thermalux Film	amber, transparent	8 mil	> 400	D,E,F,G,H,I,J,K
Ultem (filled) Micro-Pac by Circuit Wise	amber transparent	0.084	> 410	F,G,H,I,J,K
Ultrason E polyethersulfone PES film	hazy amber	10 mil	> 300	C,D,E,F,G,H,I,J,K
UMPS	orange, transparent	3 mil	310 - 400, > 470	F,G,H,I,J,K
Victrax PEEK Film polyetheretherketone	amber, hazy transparent	10 mil	> 390	D,E,F,G,H,I,J,K
Vinyl card	opaque white	30 mil	> 410	D,E,F,G,H,I,J,K
Vinyl film	clear	7.5 mil	> 380	D,E,F,G,H,I,J,K

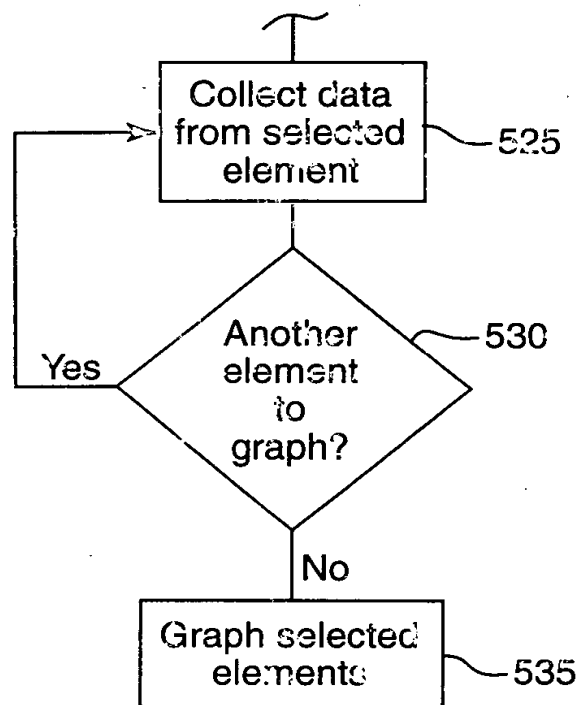
Fig. 3

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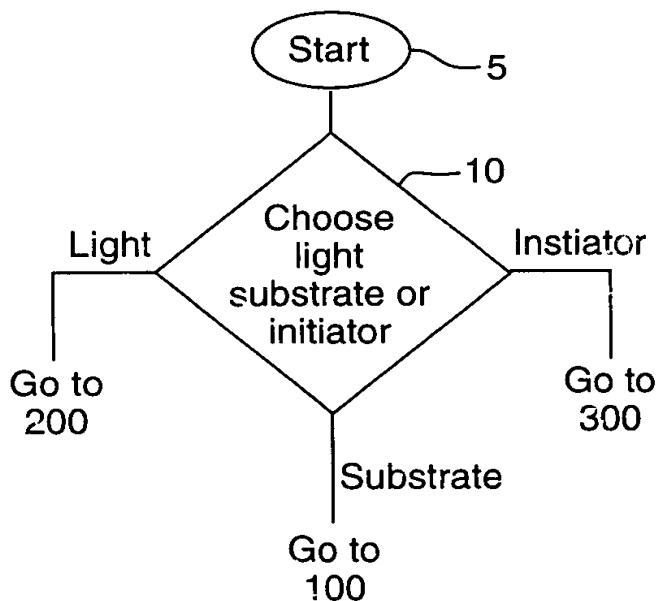
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**Fig. 4A**

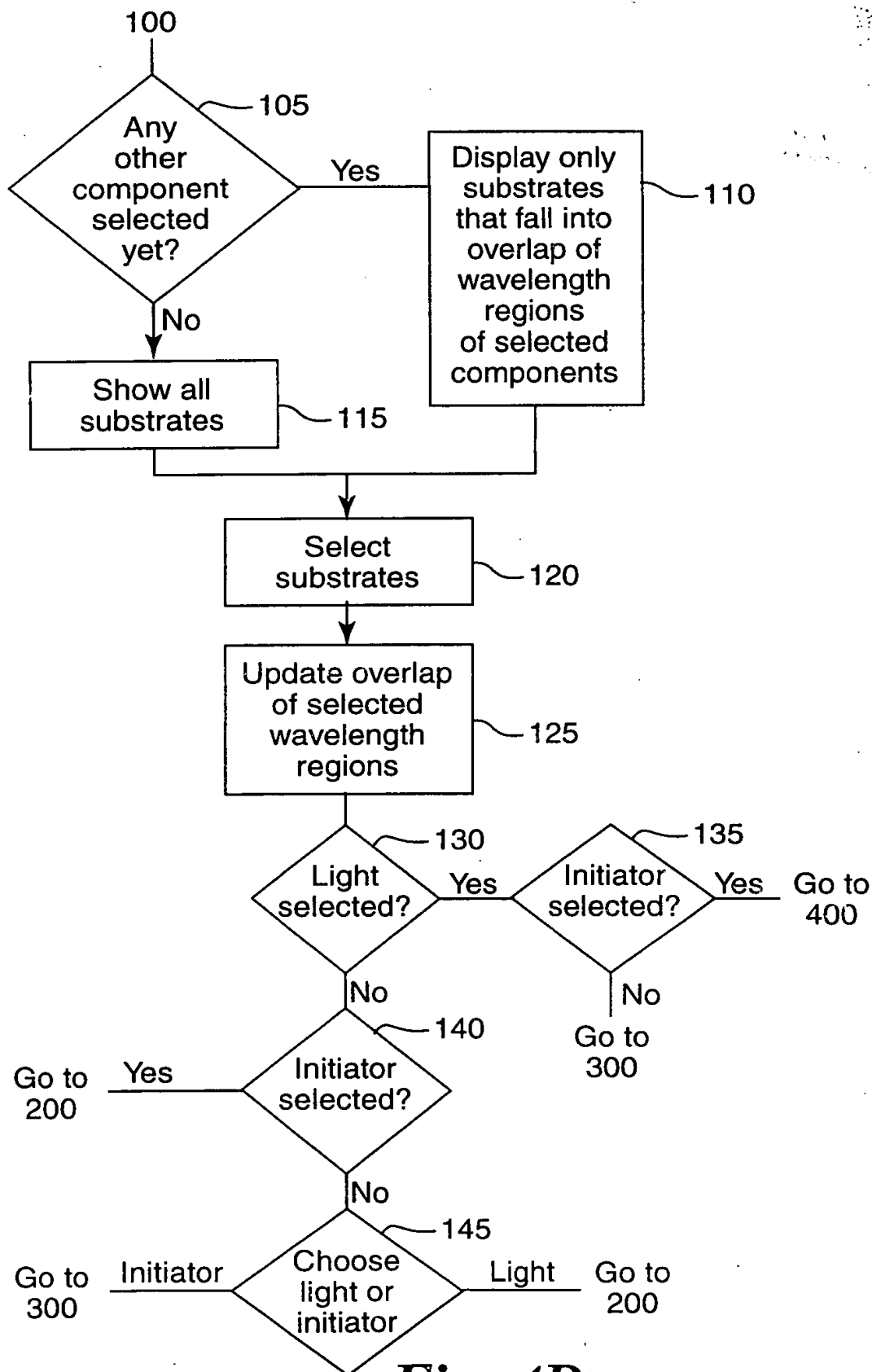


**Fig. 4B**



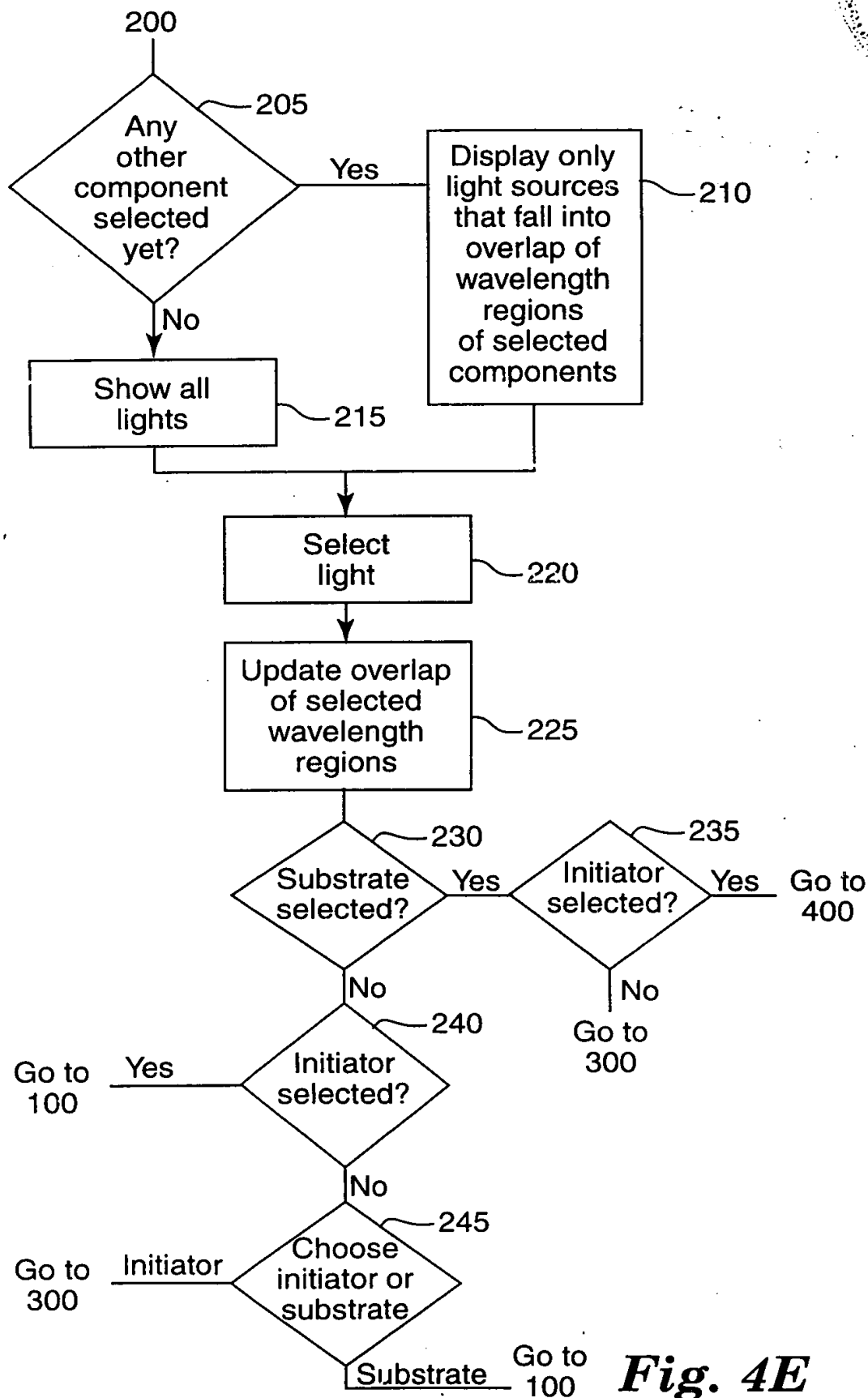
**Fig. 4C**

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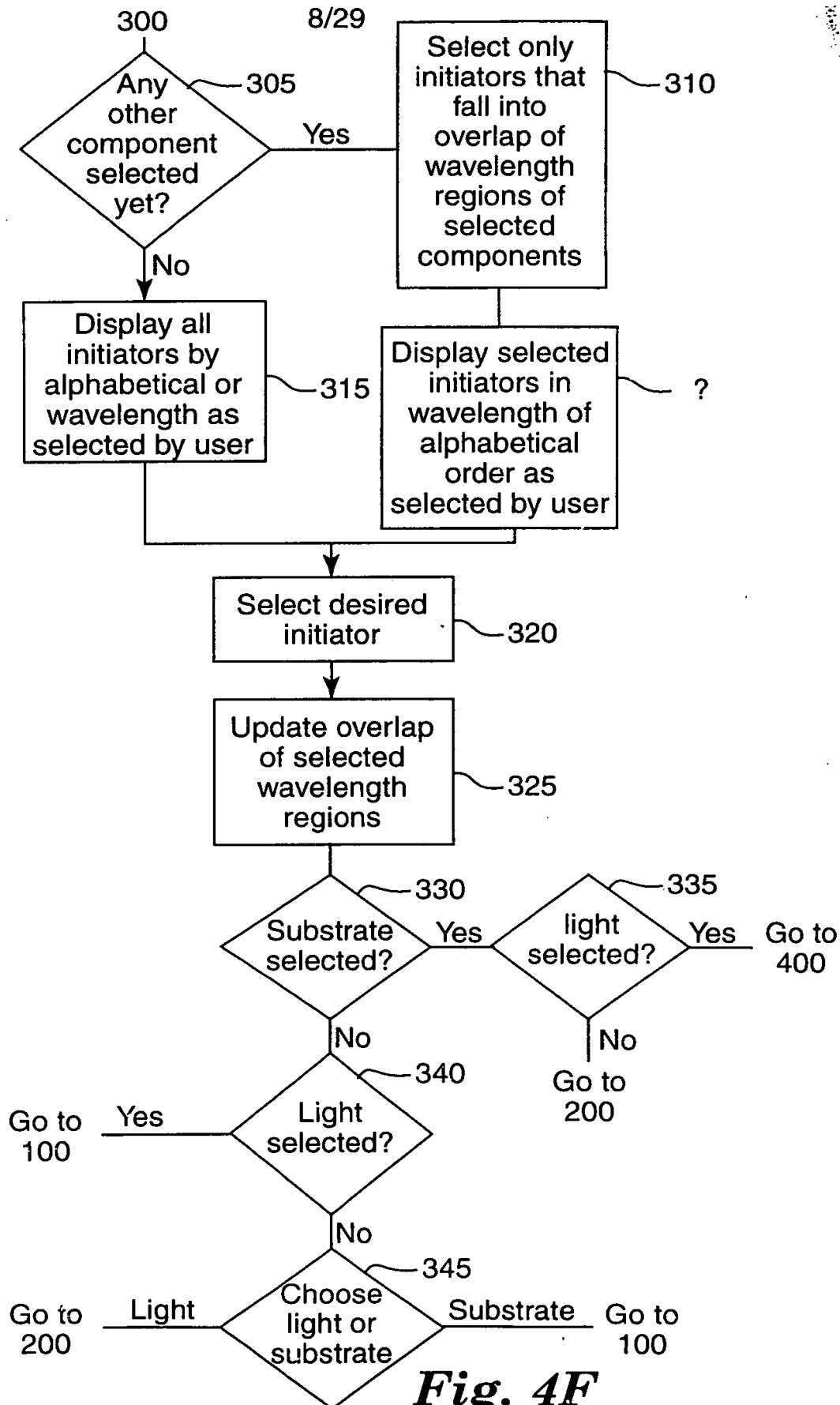
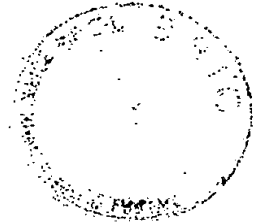


**Fig. 4D**

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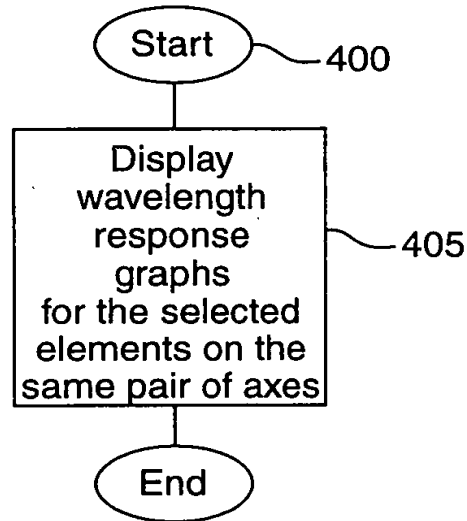


**Fig. 4E**





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**Fig. 4G**

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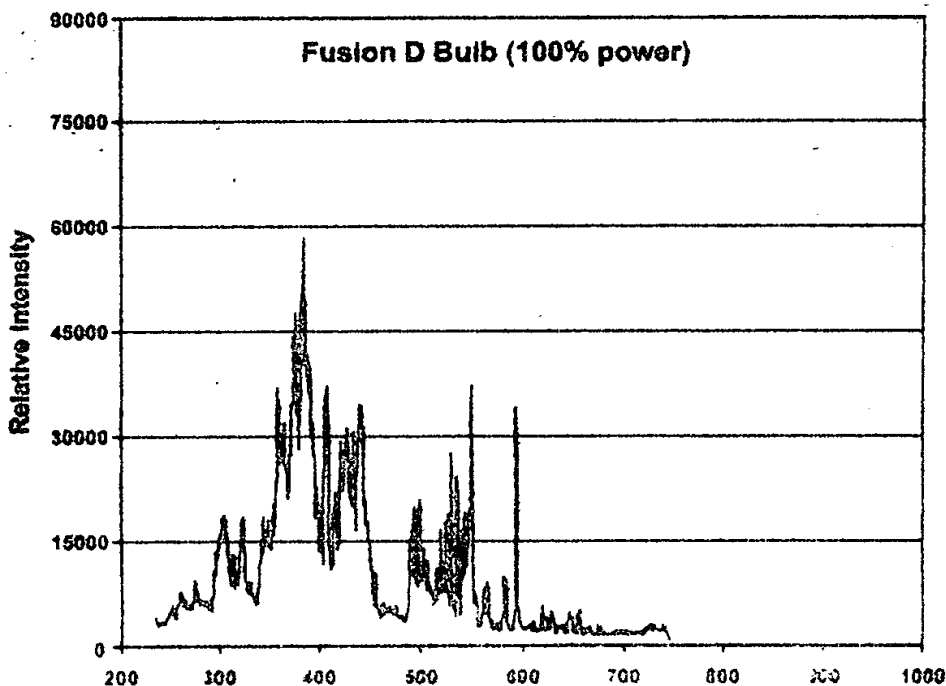
### Light Source Profile

**Light Sources:** Fusion D Bulb  
**Emiss.** 300 - 450, 500 - 600 **Picture of Light Source**  
**Wavelength (nm)**  
**Wavelength** B, C, D, F, G  
**Region:**  
**Intensity**  
**Notes:**



Fusion D 100.xls

Emiss Spectrum:



Emiss Data (Enter data from frequencies 200 - 1000 only. Enter data separated by a comma and one space (i.e. 12.3, 32.1):

4371,	3681,	4423,	4041,	4026,	4369,	4010,	4228,	3519,	4111,	3627,	4240,	3962,	3797,	3989,
4447,	3831,	3689,	3860,	3839,	4266,	3601,	3955,	4401,	3722,	3732,	3956,	4012,	3506,	3899,
4133,	4359,	4452,	3584,	4151,	3963,	3765,	3692,	3927,	4447,	3759,	3826,	4215,	3946,	3853,
4117,	4283,	3644,	3793,	3609,	3810,	4253,	3981,	4295,	3881,	3604,	3679,	3791,	3519,	3888,
4435,	3511,	4463,	3632,	4161,	3553,	4280,	3803,	3590,	3769,	4096,	4095,	3157,	3210,	3202,
3285,	3130,	3130,	2986,	3018,	3082,	3306,	3263,	3302,	3106,	3109,	3042,	3115,	3082,	3266,
3263,	3530,	3749,	4239,	4413,	4841,	4757,	4922,	4423,	4687,	4975,	5386,	5045,	5378,	5474,
5935,	5550,	5610,	4778,	4176,	3786,	3906,	3883,	4203,	4462,	5436,	6021,	7066,	7135,	7701,
7402,	7829,	7338,	7530,	6794,	6843,	6405,	6634,	6042,	6018,	5793,	6329,	5930,	5807,	5502,
5727,	5461,	5688,	5247,	5570,	5405,	5567,	5386,	5781,	5637,	6314,	6370,	7090,	7391,	8362,
8474,	9376,	8810,	9034,	8309,	8352,	7302,	7060,	6442,	6592,	5953,	6332,	6213,	6414,	6010,
6346,	6202,	6452,	6059,	6397,	6143,	6287,	5829,	6186,	6000,	6133,	5463,	5397,	5360,	5941,
5456,	5218,	5120,	5882,	6010,	6826,	6847,	7690,	8224,	9277,	9379,	10762,	10314,	11424,	12000,
13370,	12474,	13928,	13594,	14824,	14734,	16098,	15146,	16235,	15923,	18144,	17212,	17789,		

Fig. 5A

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Fig. 5B

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1727, 1698, 1672, 1725, 1754, 1834, 1863, 1994, 2074, 1930, 1717, 1666, 1674, 1885, 2082,  
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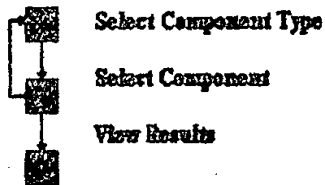
Maximum Frequency (Enter 1000 or smaller if the frequency range is less than 1000):  
748

*Fig. 5C*

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## Select a Substrate, Light Source, and/or Photo Initiator Type



This process allows you to select up to three components to view together. For each component, you must first select a component type. There are three types of components to select from (Substrate, Photo Initiator, or Light Source). After selecting the desired component type, you can then select a component of that type.

- Select the first component type from the drop-down list below and click the Next > button.

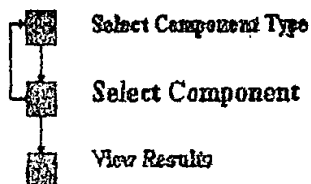
Select the first component type:

Substrate

Next >

*Fig. 6A*

## Select a Substrate, Light Source, and/or Photo Initiator



- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.
- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.
- If you want to select a different component type, click the < Back button.

Select a Substrate:


< Back Next > View Overlay

*Fig. 6B*

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## Select a Substrate, Light Source, and/or Photo Initiator Type



**Select Component Type**

**Select Component**

**View Results**

- Select the next component type from the drop-down list below and click the Next > button.
- If you want to select a different component, click the < Back button.


Select the second component type:

Component Type #1	Substrate
Component #1	Epox

< Back	Next >
--------	--------

*Fig. 6C*

## Select a Substrate, Light Source, and/or Photo Initiator



**Select Component Type**

**Select Component**

**View Results**

- If you want to view more components, select a component of the selected type from the drop-down list below and click the Next > button.
- If you want to view the current component(s), select a component of the selected type from the drop-down list below and click the Finish button.
- If you want to select a different component type, click the < Back button.

Select a Photo Initiator:

Component Type #1	Substrate
Component #1	Epox

< Back	Next >	View Overlay
--------	--------	--------------

*Fig. 6D*

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## Select a Substrate, Light Source, and/or Photo Initiator Type

☐ Select Component Type  
☐ Select Component  
☐ View Results

Select the third component type:

Component Type #1	Substrate
Component #1	BT Epoxy
Component Type #2	Photo Initiator
Component #2	Dispersible Blue

*Fig. 6E*

## Select a Substrate, Light Source, and/or Photo Initiator

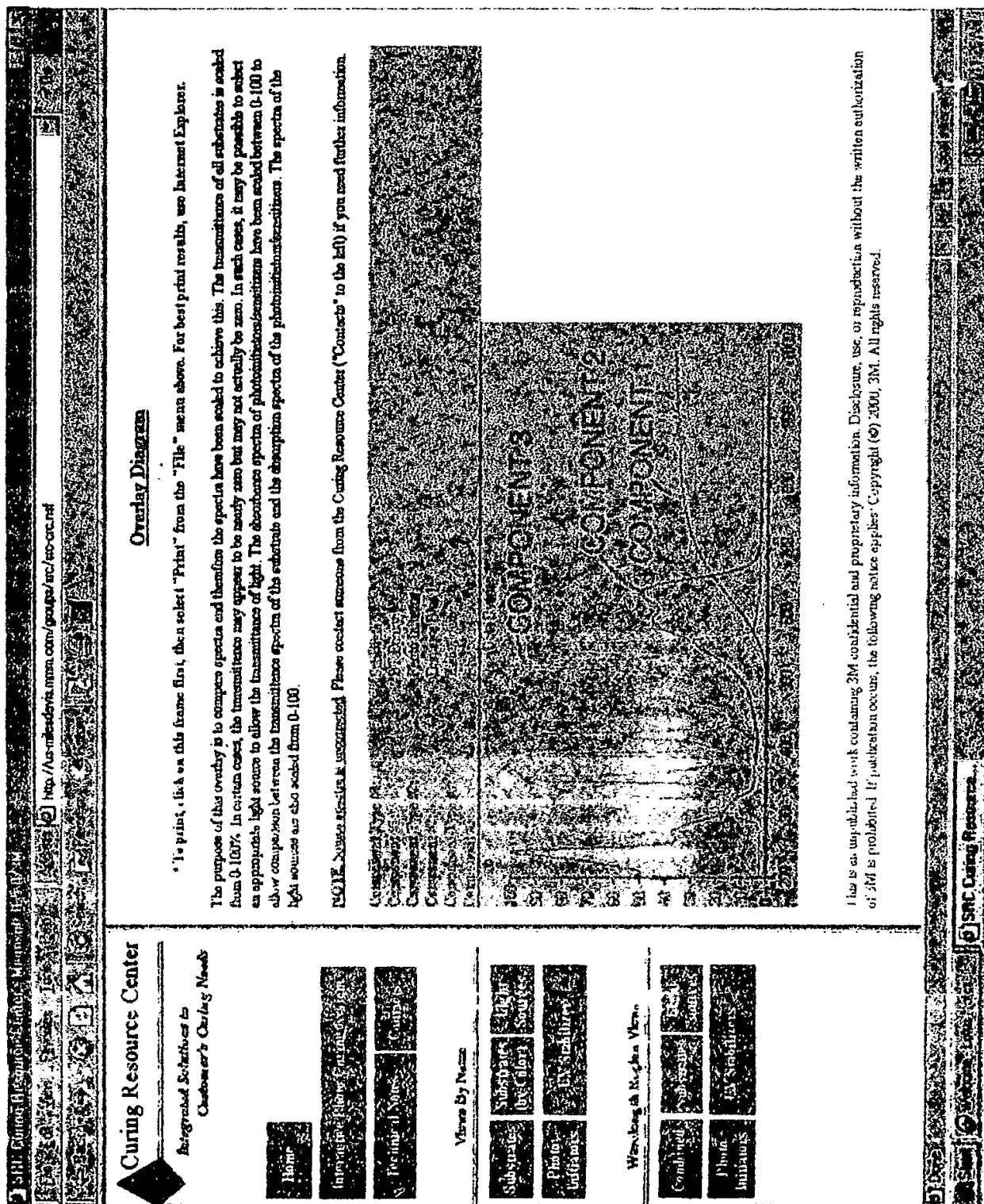
☐ Select Component Type  
☐ Select Component  
☐ View Results

Select a Light Source:

Component Type #1	Substrate
Component #1	BT Epoxy
Component Type #2	Photo Initiator
Component #2	Dispersible Blue

*Fig. 6F*

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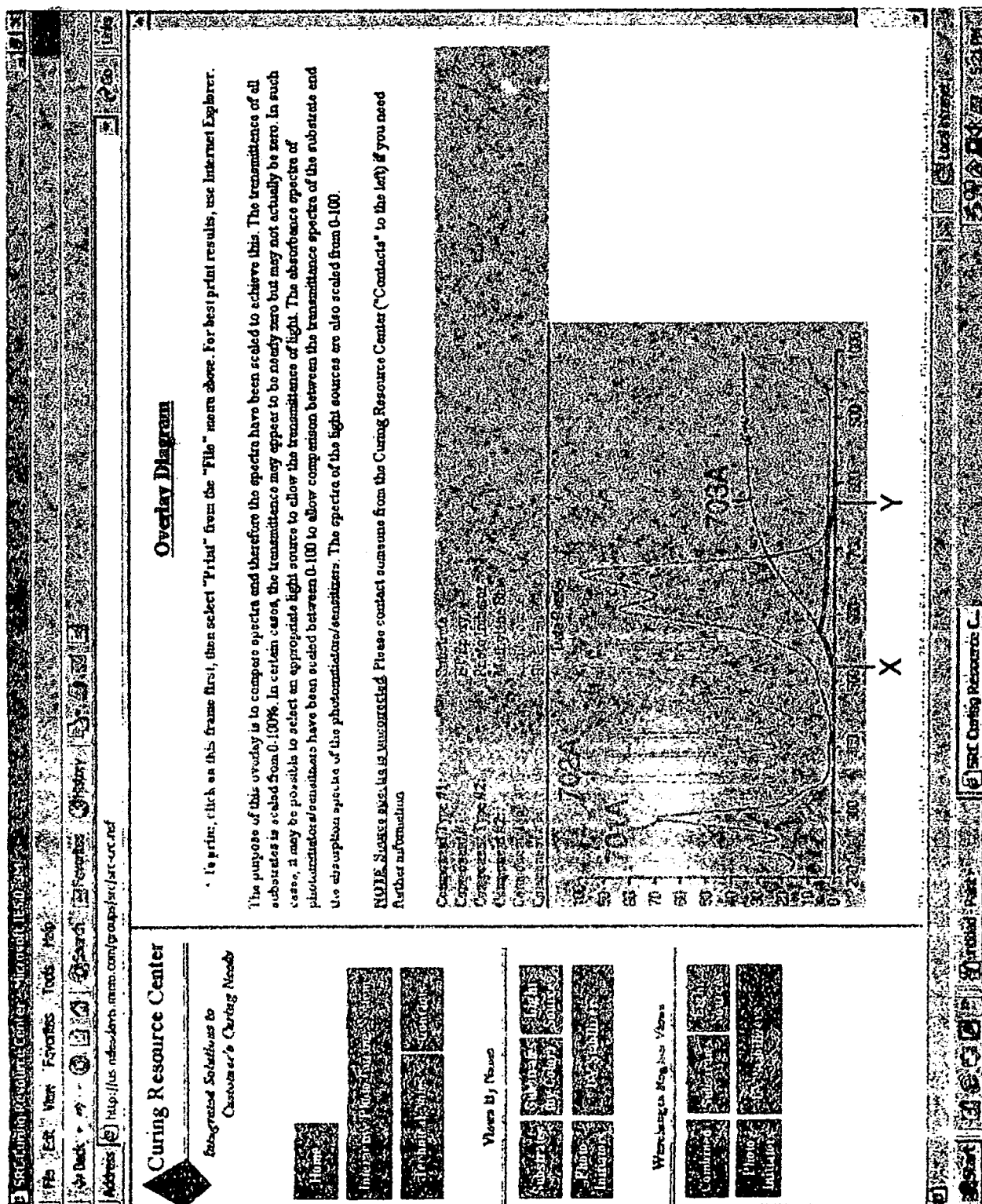




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Fig. 7A



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Fig. 7B

**Curing Resource Center**  
 Integrated Solutions to  
 Customer's Curing Needs

Home

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Substrates by Color

Photo Initiators

Substrates by Light Source

Photo Stabilizers

Wavelengths

Substrates by Wavelength

Substrates by Wavelength

Substrates by Wavelength

Address: <http://us.ncs.com>

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**Overlay Diagram**

\* To print, click on this frame first, then select "Print" from the "File" menu above. For best print results, use Internet Explorer.

The purpose of this overlay is to compare spectra and therefore the spectra have been scaled to achieve this. The transmittance of all substrates is scaled from 0-100%. In certain cases, the transmittance may appear to be nearly zero but may not actually be zero. In such cases, it may be possible to select an appropriate light source to allow the transmittance of light. The absorbance spectra of photoinitiators/accelerators have been scaled between 0-100 to allow comparison between the transmittance spectra of the substrate and the absorbance spectra of the photoinitiators/accelerators. The spectra of the light sources are also scaled from 0-100.

**NOTE: SOURCE SPECTRA IS UNCORRECTED.** Please contact someone from the Curing Resource Center ("Contacts" to the left) if you need further information

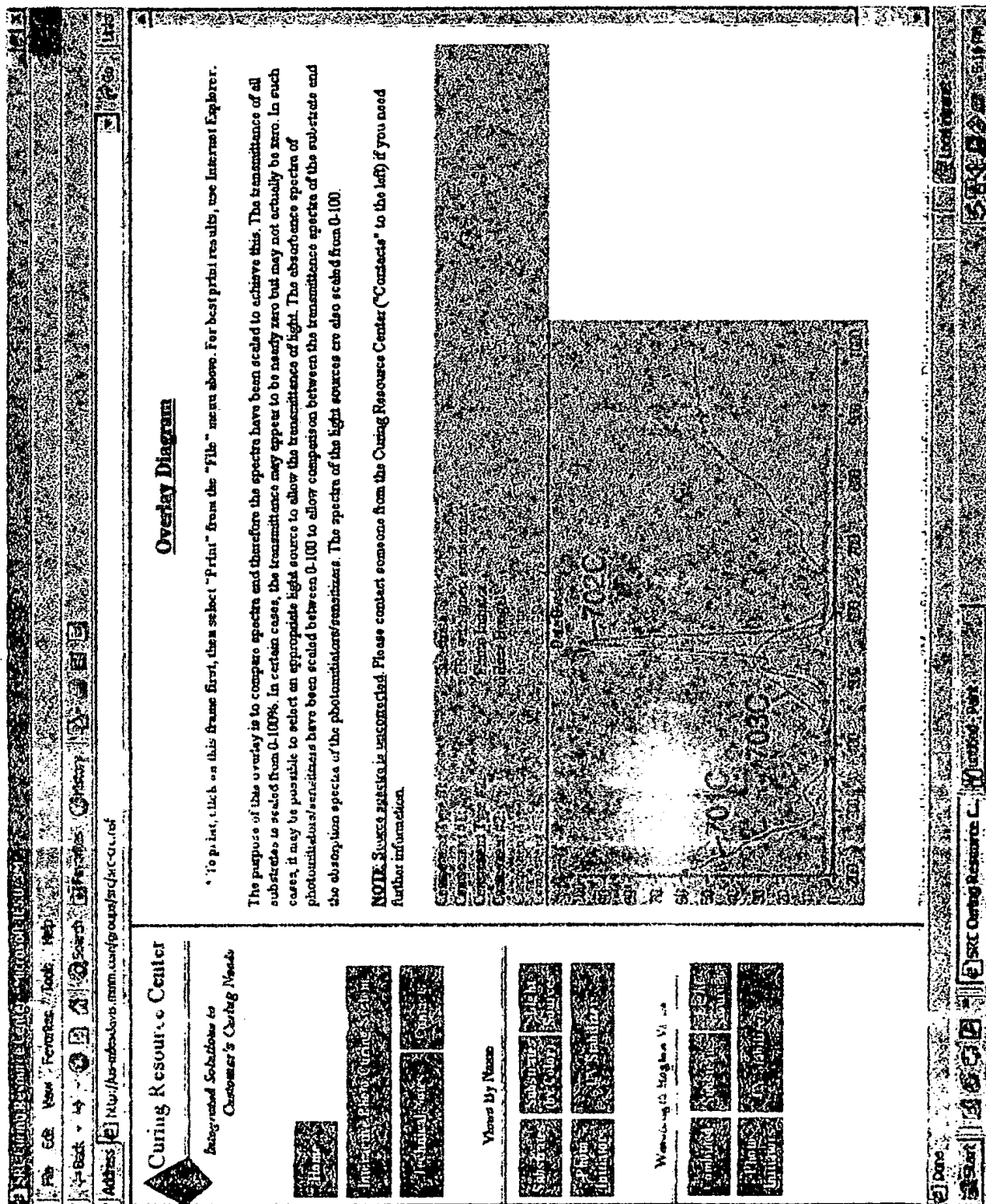
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Fig. 7C



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Address: http://hs-research.com/config/initializer.cgi

**Curing Resource Center**

Designated Solutions to Customer's Curing Needs

Initial Cure

Intermediate Cure

Final Cure

View By Name

Initial Cure

Intermediate Cure

Final Cure

View Overlay

**Select a Substrate, Light Source, and/or Photo Initiator**

Select Component Type

Select Component

View Results

Select a Light Source:

Component Type #1

Component Type #2

Component Type #3

Component Type #4

Component Type #5

Component Type #6

Component Type #7

Component Type #8

Component Type #9

Component Type #10

Component Type #11

Component Type #12

Component Type #13

Component Type #14

Component Type #15

Component Type #16

Component Type #17

Component Type #18

Component Type #19

Component Type #20

Component Type #21

Component Type #22

Component Type #23

Component Type #24

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Component Type #93

Component Type #94

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Component Type #96

Component Type #97

Component Type #98

Component Type #99

Component Type #100

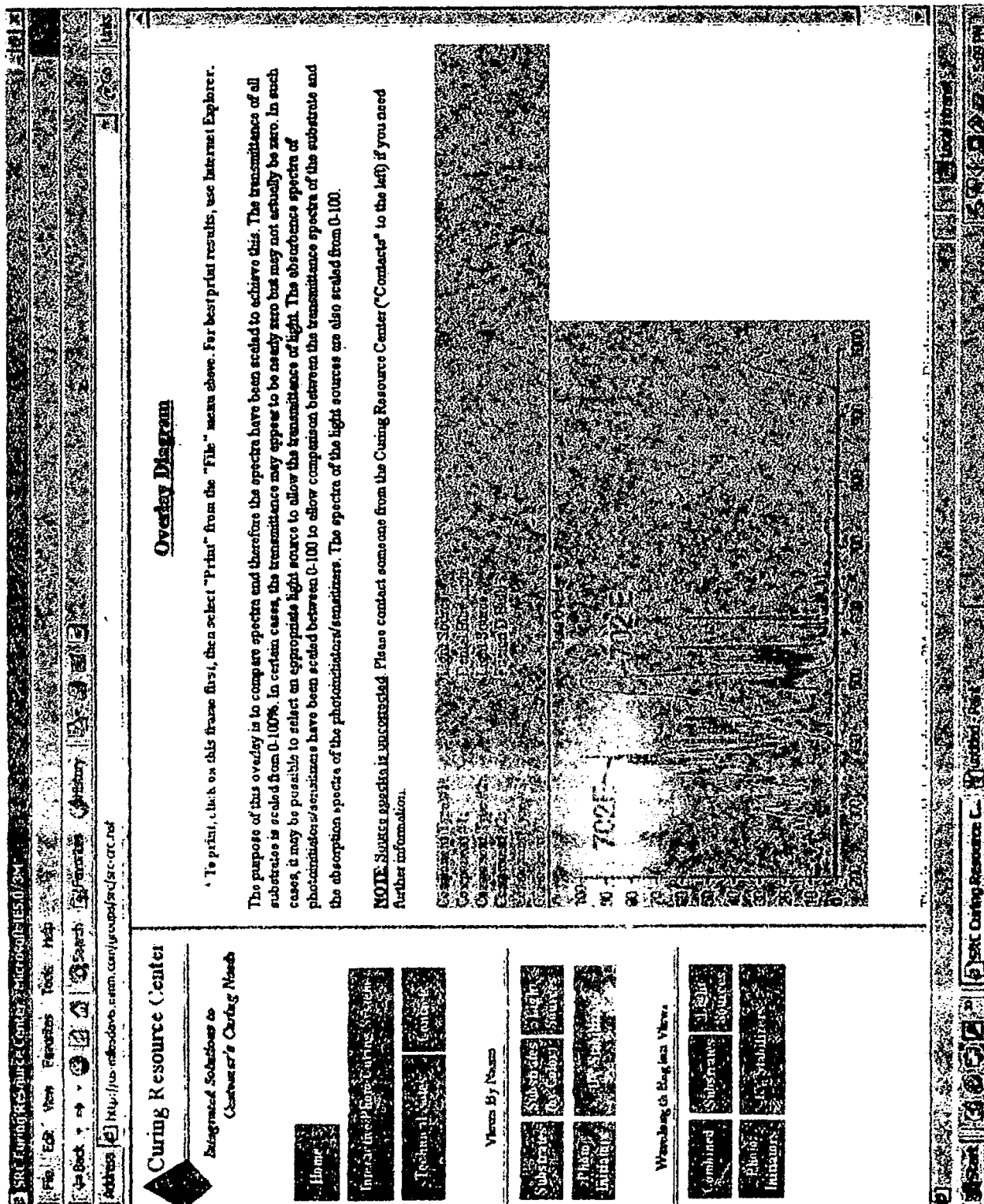
Back Forward Stop Home

Address: http://hs-research.com/config/initializer.cgi

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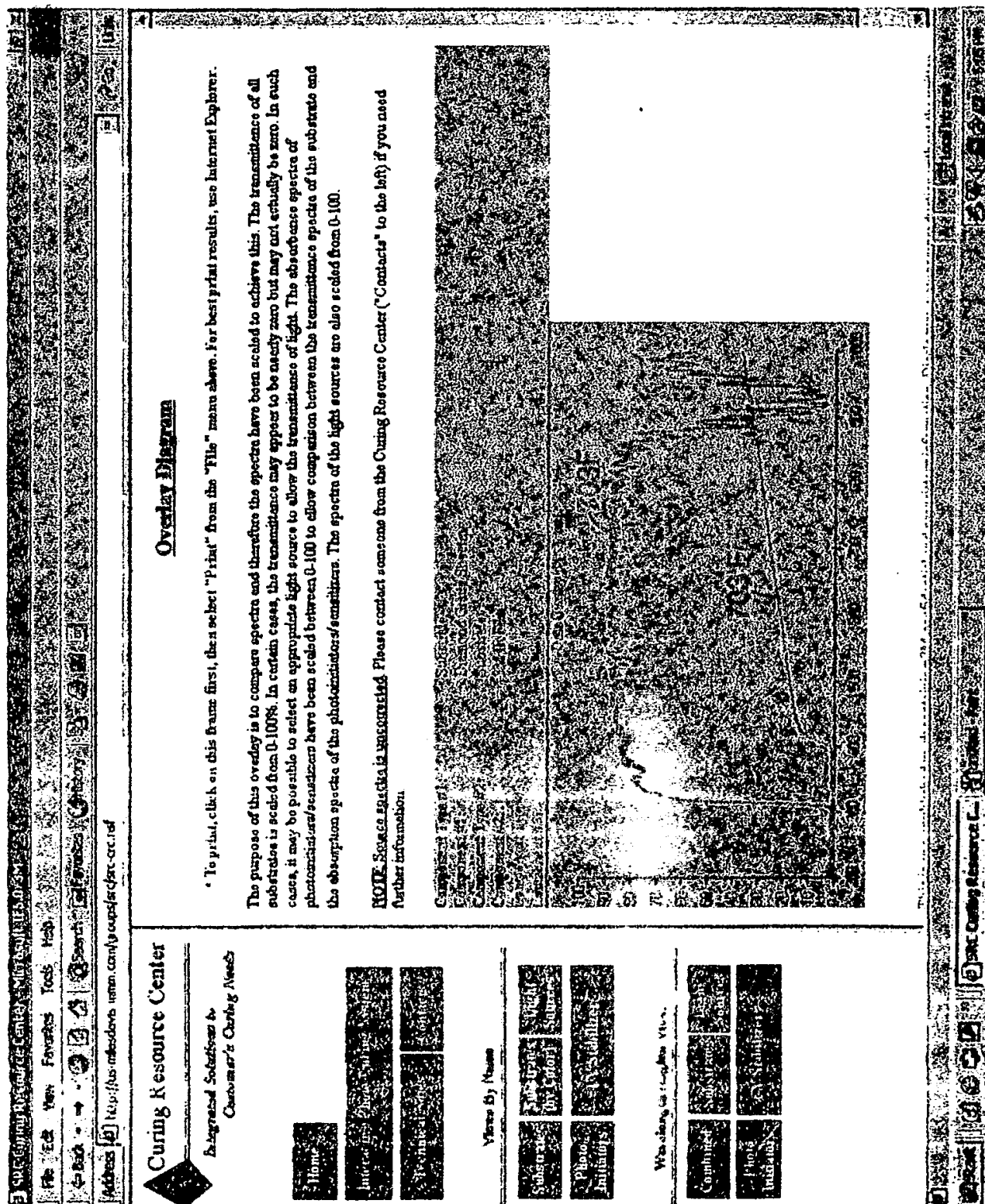
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Fig. 7E



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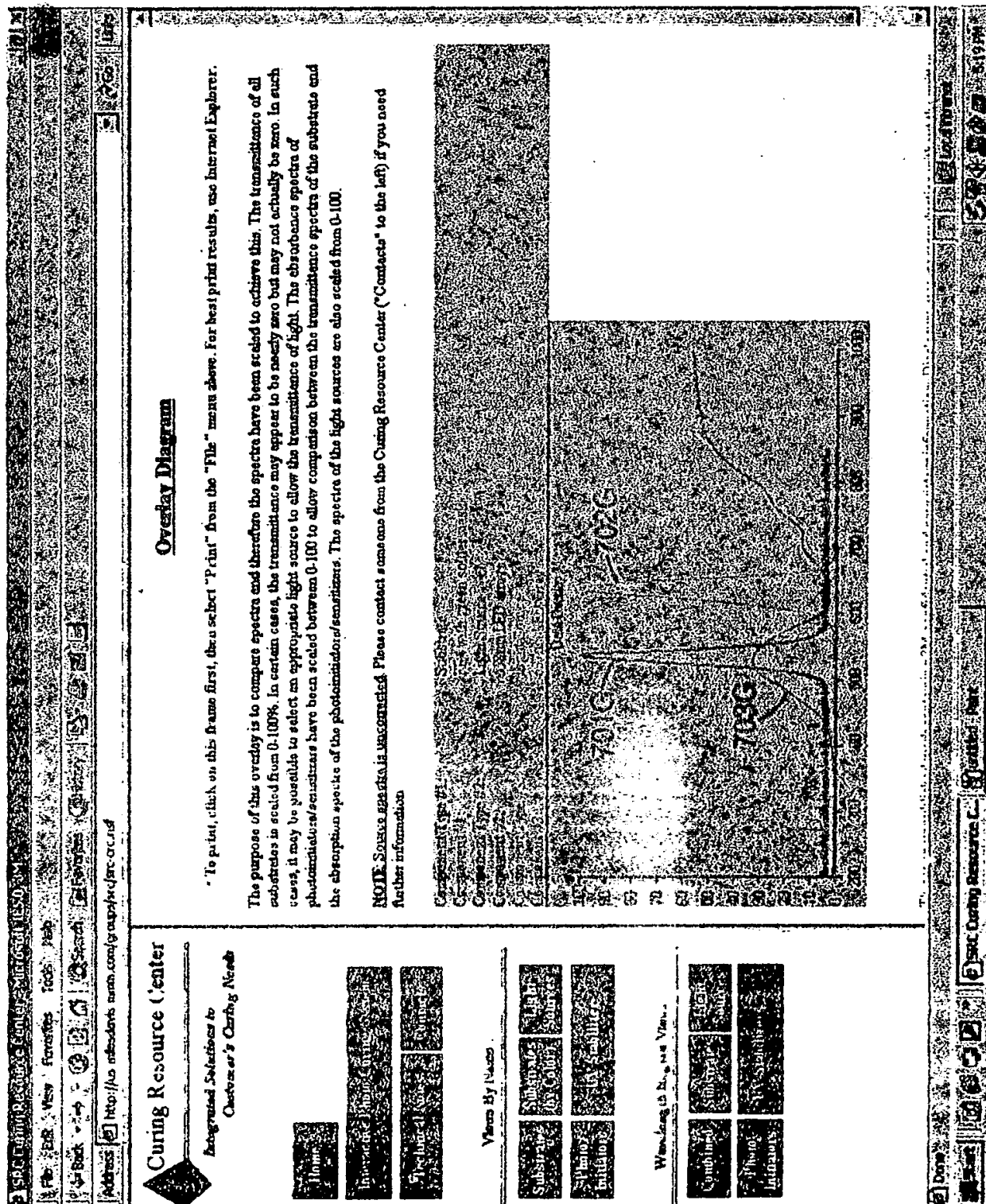


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Inventor(s): Kalgutkar et al.  
Title: PHOTOCURING SYSTEM DATABASE

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Fig. 7G

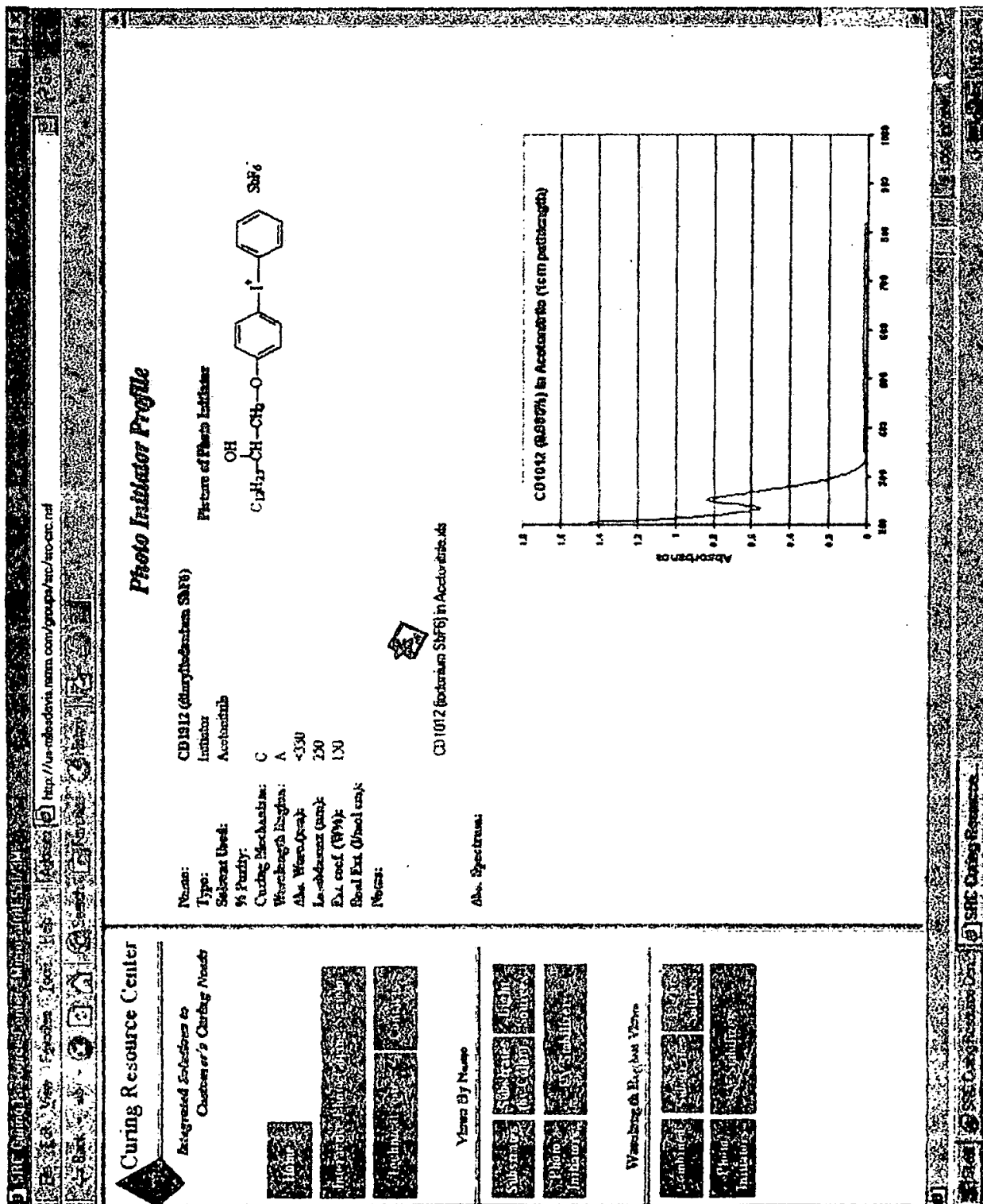


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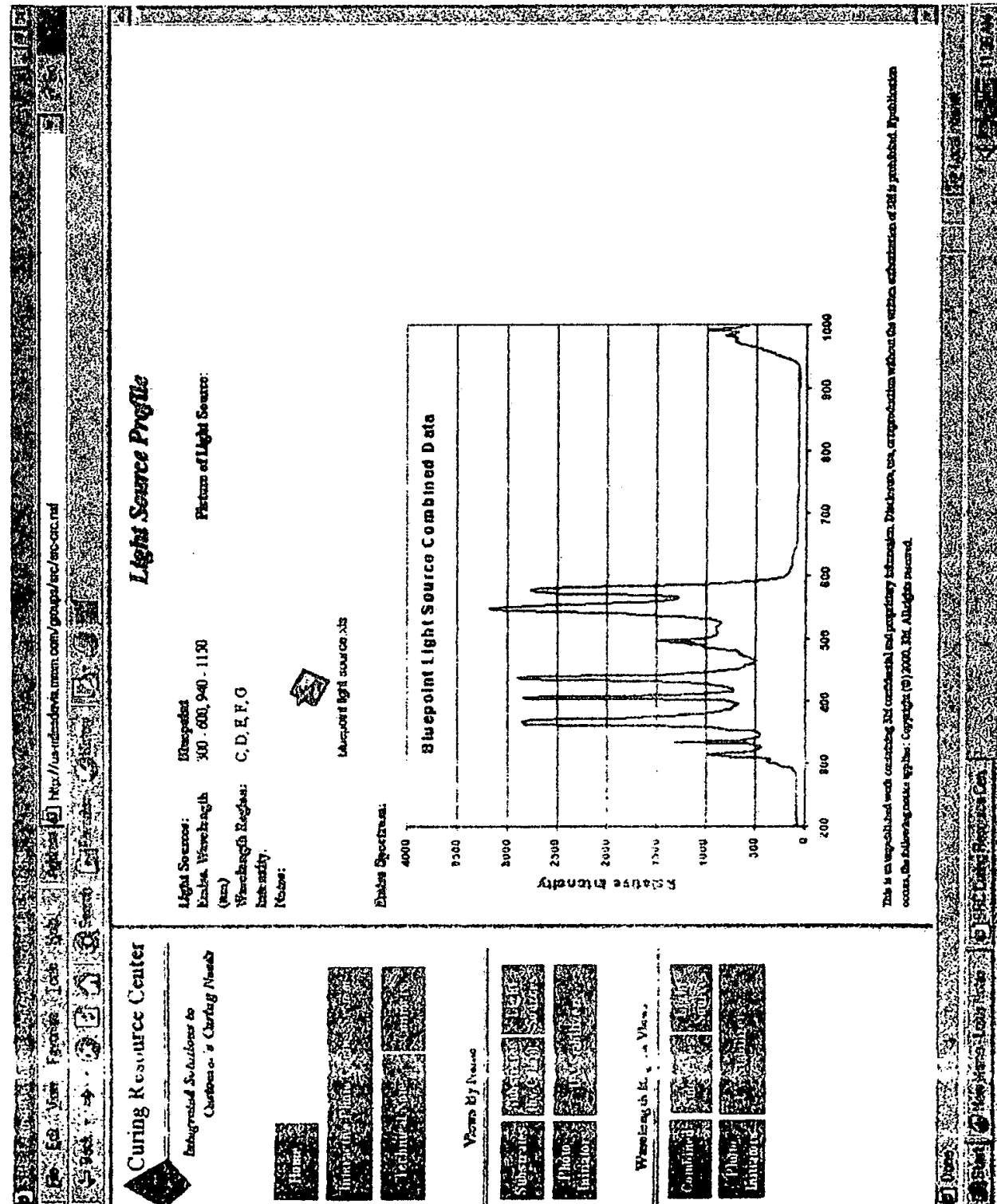
Fig. 7H



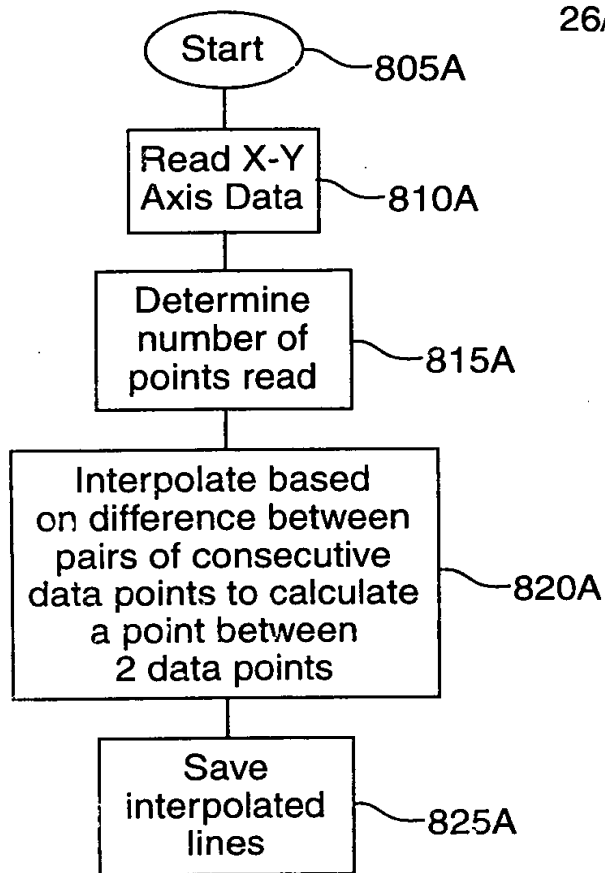


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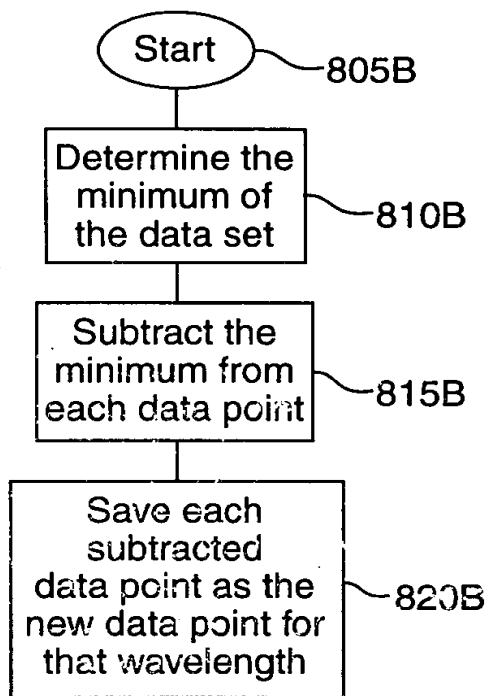
Fig. 71



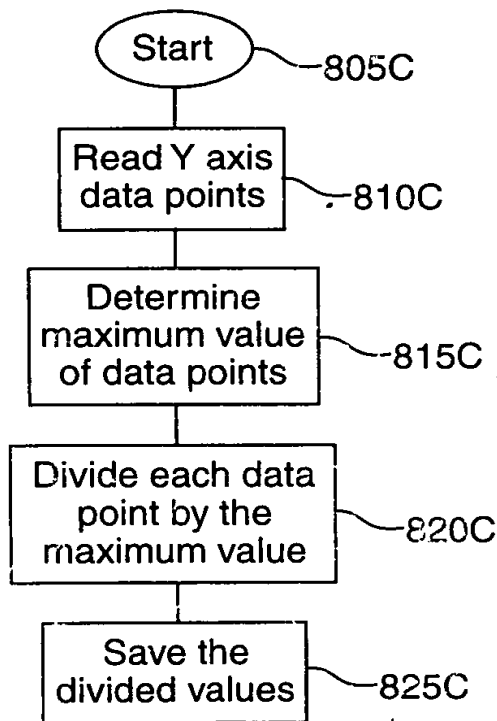
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*Fig. 8A*



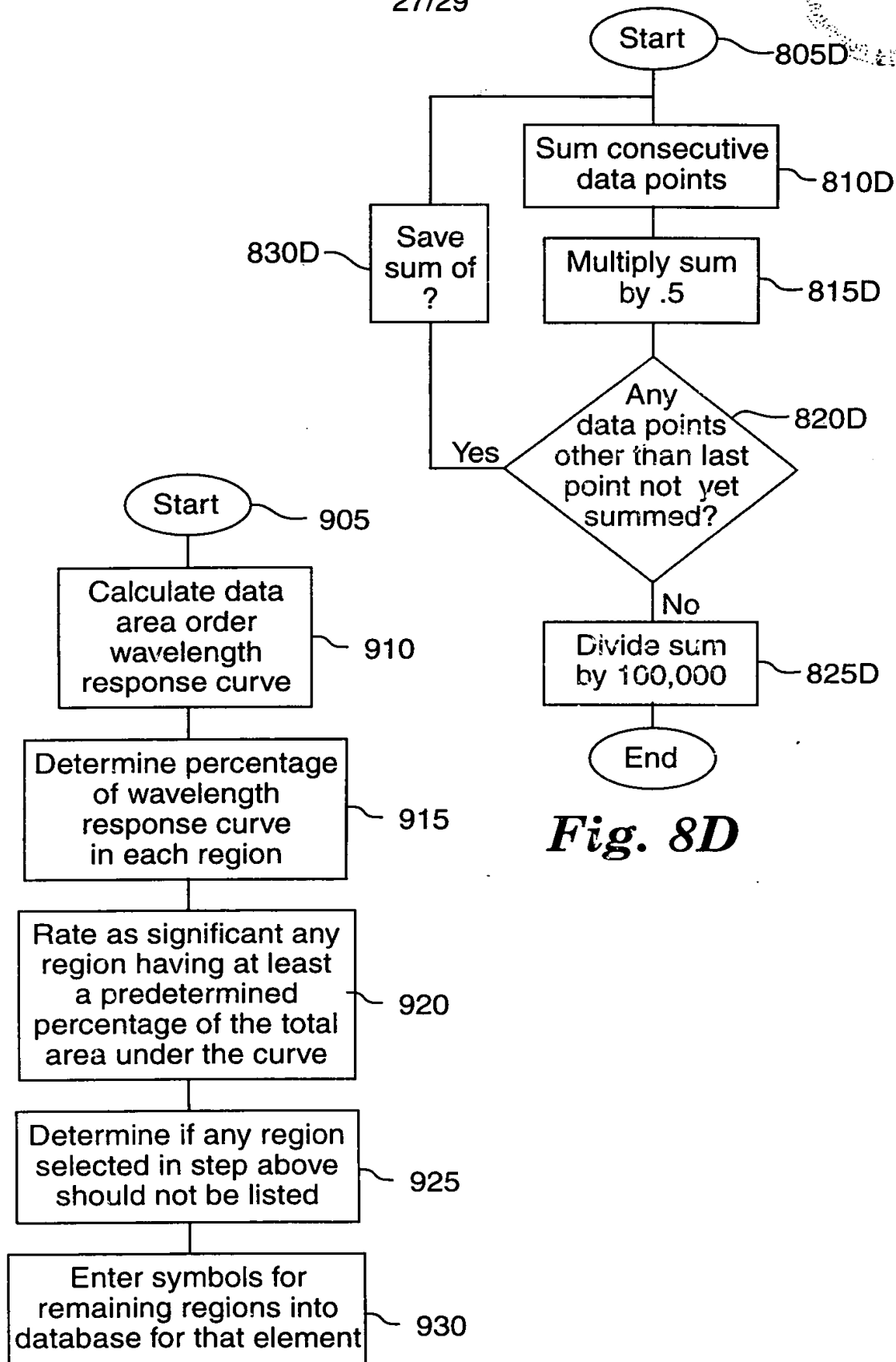
*Fig. 8B*



*Fig. 8C*

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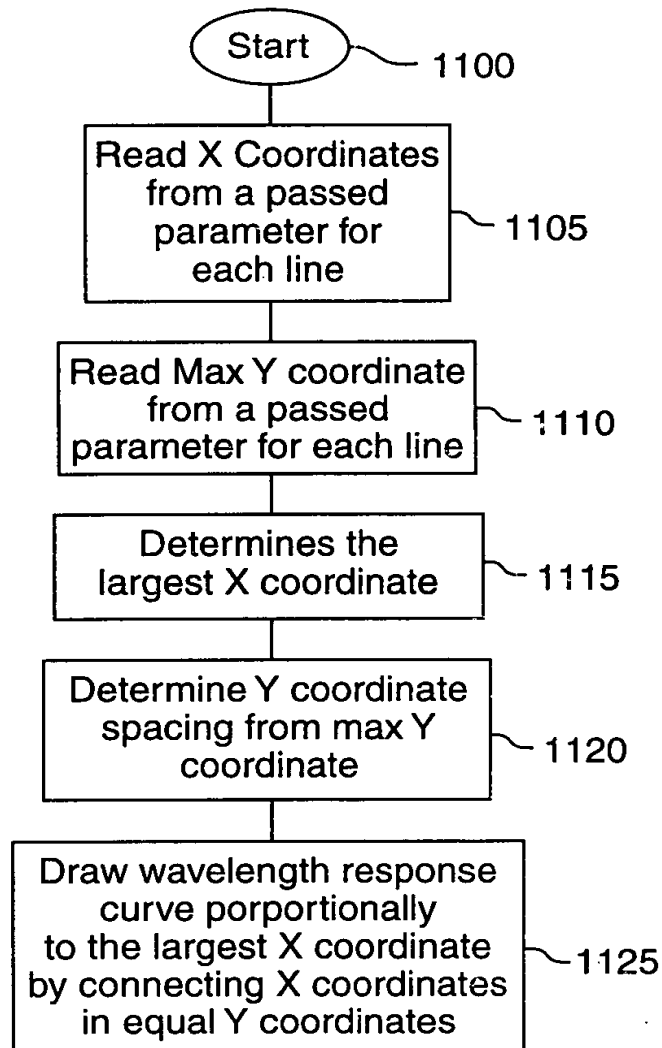


**Fig. 8D**

**Fig. 9**



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**Fig. 11**